

IN THE ABSTRACT

A data storage device includes a secure data storage portion (250) including a log memory (253). The log memory (253) is formed of a plurality of banks (2531—253N), and stores history information in the plurality of banks (2531—253N) in a ring-like fashion. The plurality of banks (2531—253N) are designated by addresses (0 - (N - 1)), respectively. Each of the items of the history information respectively stored in the banks (2531—253N) includes a management number region (2541), a license ID (LID) region (2542), a Ks2x region (2543), an ST1 region (2544), an ST2 region (2545), a KPcmy region (2546) and a LBA region (2547).